

32. (new) An heat-sensitive medium for the separation of species in a separating channel, the said medium comprising an electrolyte in which at least a set of block copolymers is dissolved, said block copolymers being provided in the said electrolyte at a sufficient concentration to confer on the said medium the ability to reversibly transit from a viscosity state V1, obtained at a temperature T1, to a viscosity state V2 which is at least 100% higher